SRF-M903

MANUAL

AEP Model
UK Model
E Model

SPECIFICATIONS

Frequency range	FM: 87.5 — 108 MHz (0.05 MHz* scan step) AM: 531 — 1602 kHz *The frequency display is raised or lowered by steps of 0.1 MHz. (Example: Frequency 88.05 MHz is displayed as 88.00 MHz.)
Intermediate frequency	FM: 10.7 MHz AM: 450 kHz
Antenna	FM: Earphone cord antenna AM: Built-in ferrite bar antenna
Output	Stereo earphone jack (stereo ϕ2.5 mm, load impedance 16 ohms)
Power output	18 mW + 18 mW (at 10% harmonic distortion)
Power requirements	3 V DC, two R03 (size AAA) batteries
Battery life	Using Sony batteries UM-4 (NU) FM: Approx. 16 hours AM: Approx. 23 hours
Dimensions	Approx. 59 × 100 × 18.3 mm (w/h/d) incl. projecting parts and controls
Weight	Approx. 90 g incl. batteries
Supplied accessories	Earphones (1), Ear pad (2), Carrying case (1)

Design and specifications are subject to change without notice.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

FEATURES

- AM/FM stereo PLL (Phase Locked Loop) synthesized receiver.
- UP to 14 stations (7 for each band) can be stored for button-touch tuning (memory preset tuning).
- The tuned frequency is digitally displayed to make searching for the desired station easier. When the radio is off, the current time is displayed.
- Beep sound notifies you of the preset time (timer and alarm function).
- Power goes off automatically in about 90 minutes (power saving features).

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

MICROFILM

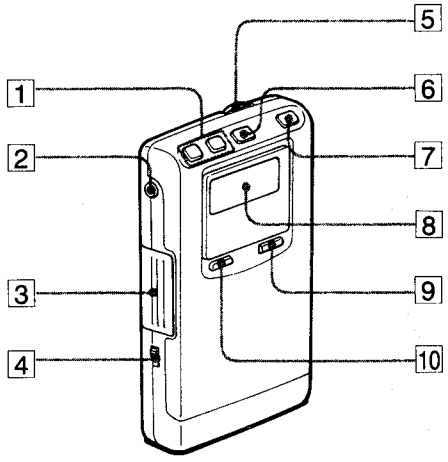
AM/FM STEREO PLL SYNTHESIZED RECEIVER

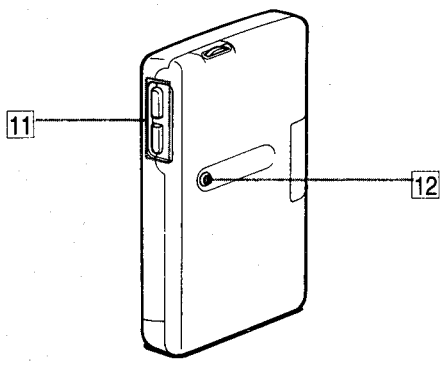
SONY®

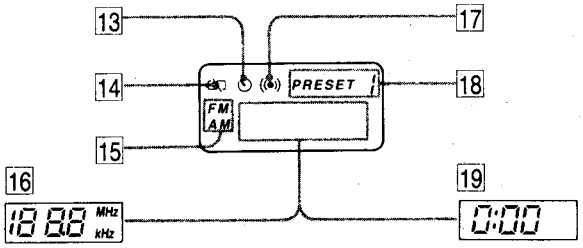
SECTION 1
GENERAL

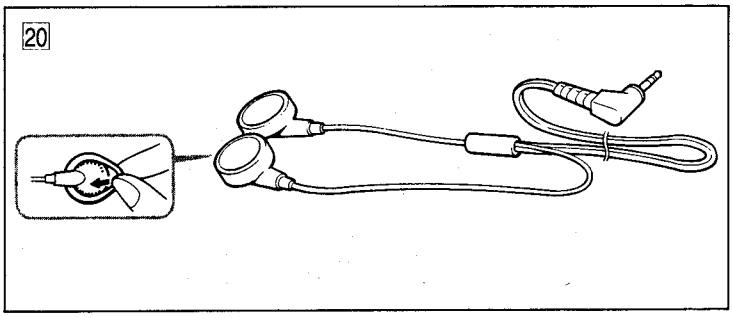
Location of Controls

This section is extracted from instruction manual.









Front Panel

1 MEMORY PRESET +/– buttons
2 ∩ (stereo earphones) jack
The earphone cord serves as the FM antenna.
3 Battery compartment
4 ST/MONO (stereo/monaural) selector
5 VOLUME control
6 BAND selector
7 AUTO OFF/POWER button
8 Display window
9 ALARM button
10 TIMER button

Rear panel

11 TUNE (tuning)/TIME SET +/– buttons
12 ENTER/CLOCK button

Display window

13 Timer indicator
Appears when you set the timer.
14 Battery indicator
Flashes when the batteries become weak.
15 Band indicator
16 Frequency indicator
Appears while the radio is on.
17 Alarm indicator
Appears when you set the alarm.
18 PRESET and preset number indicators
19 Time indicator
Appears when the radio is off.

Earphones

20 To attach the supplied ear pad

Battery Installation B

Insert two R03 (size AAA) batteries with correct polarity. When you insert the batteries for the first time, 0:00 flahes in the display window. To stop flashing, press ENTER/CLOCK.

Battery replacement
When the batteries become weak, the radio is turned off, the time indicator appears and ⌓ flashes in the display window. (The sound may become weak or distorted before ⌓ starts flashing.) If you turn on the power again, you can listen to the radio for a short time. But the power will be soon turned off and ⌓ flashes again.
When ⌓ flashes, replace both batteries with new ones. Even after you replace the batteries, ⌓ remains flashing. To turn off ⌓, press AUTO OFF/POWER.

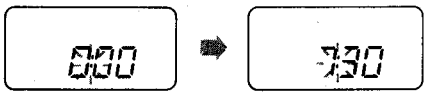
Replace the batteries within about 60 seconds after turning off the power.
If more than 60 seconds has passed, the preset stations are canceled and the time indicator becomes 0:00.
In this case, perform the clock setting and preset tuning again.

Notes on the battery
- Insert the batteries with correct polarity.
- Do not mix new and used batteries.
- The batteries cannot be charged.
- To avoid damage from possible battery leakage, remove the batteries when the unit will not be used for a long time.
- Concerning the battery life, see "Specifications".

Clock Setting C

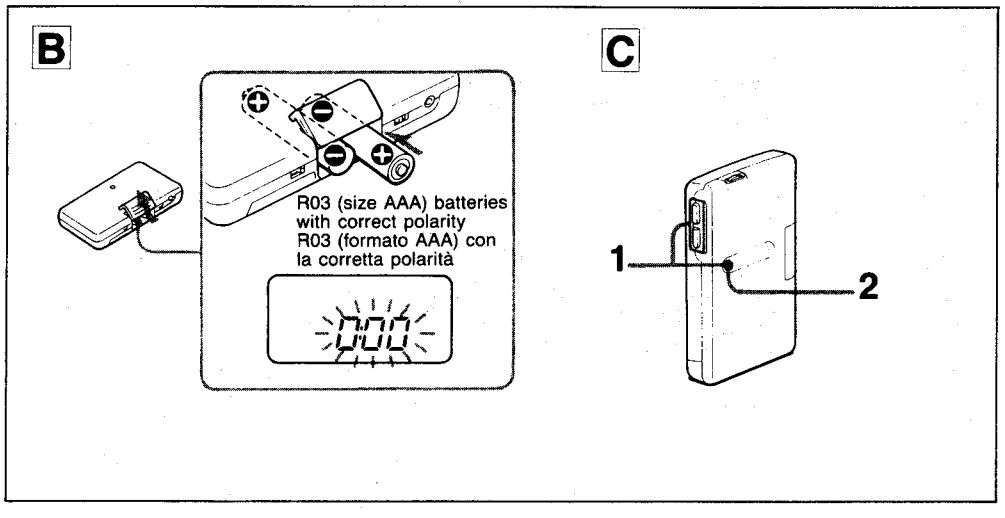
1 **While keeping ENTER/CLOCK pressed, press TUNE/TIME SET + or − button until the display shows the current time.**
Press + to increase or − to decrease the digits.
When you keep the button pressed, the digits change rapidly.
While setting the time, : is flashing.

0:00 = midnight
12:00 = noon



2 **When the display shows the current time, release ENTER/CLOCK.**
: stops flashing and the clock starts operating.

To set clock to the second
After adjusting the time, keep ENTER/CLOCK pressed. Release ENTER/CLOCK by using the time signal.



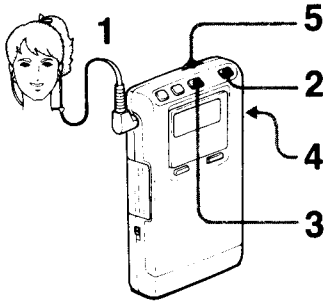
Radio Operation D

1 **Connect the earphones.**
Extend the cord as it serves as the FM antenna.
2 **Press AUTO OFF/POWER to turn on the power.**
The display window shows a frequency.
3 **Select FM or AM with BAND.**
4 **Tune in the desired station by pressing TUNE/TIME SET +/− button.**
At each press of +, the FM frequency becomes 0.05 MHz higher (the display changes by 0.1 MHz) and the AM frequency becomes 9 kHz higher. At each press of −, the FM and AM frequencies become lower by the same intervals.
To change the frequency rapidly, keep the button pressed.
5 **Adjust VOLUME.**

To turn off the radio
Press AUTO OFF/POWER again.
The display shows the current time.

When the power is turned off automatically
The radio will be turned off automatically in about 90 minutes to prevent unnecessary wear of the batteries.
To continue listening to the radio, press AUTO OFF/POWER again. If the batteries are exhausted, the power is turned off automatically to protect the preset contents.

D



Memory Preset Tuning

Once you store the desired stations, you can tune them in by a simple operation. You can store 7 stations for each of the FM and AM bands.

How to Preset E

1 **Turn on the power.**
2 **Tune in the desired station to preset.**
See "Radio Operation".
3 **Keep ENTER/CLOCK pressed for more than 1 second.**
Release ENTER/CLOCK when PRESET and a preset number indicator flash in the display window with the beep sound.
4 **Select a preset number from 1 to 7 by pressing MEMORY PRESET +/− button.**
Press + to increase the digit (1→2→ . . . . →6→7)
Press − to decrease the digit. (7→6→ . . . . →2→1)
5 **Press ENTER/CLOCK again.**
Beep-beep sounds, and PRESET and a preset number stop flashing. The station has been stored.
To preset other stations, repeat steps 2 to 5.

Note
Go to the next step while the PRESET and preset number are flashing (for about 5 seconds). Otherwise the unit returns to step 2. If this happens, try again from step 3.

To Tune in a Preset Station F

1 **Turn on the power.**
2 **Select the band, FM or AM.**
3 **Select the desired preset number by pressing MEMORY PRESET +/− button.**
4 **Adjust VOLUME.**

To change the preset station
Tune in the desired station to be newly preset. Preset the tuned station to the desired button. The station previously preset to the button is lost.

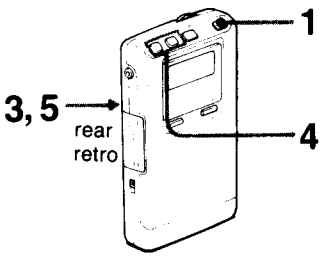
For Better Reception

FM G
Extend the earphone cord so that the FM sensitivity will be increased, as it serves as the FM antenna.

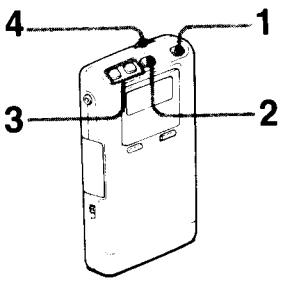
AM H
The ferrite bar antenna is built in for AM reception. Rotate the unit horizontally for optimum reception.

If the FM stereo program is noisy
Usually set ST/MONO to ST. You can receive the FM stereo program in stereo. When the signal is weak and noisy, set to MONO. There will be no stereo effect, but the sound will improve.

E

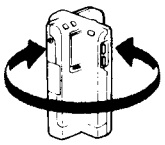


F



G

H



Sounding the Beep at Desired Time

You can make the unit sound its beep through the connected earphones at the desired time. Use this feature to remind you of an appointment, etc.

There are two ways of setting:
- Timer setting — to sound the beep a certain number of minutes later than the present.
- Alarm setting — to sound the beep at a certain time.

You can set the timer and alarm while the radio is either on or off.

Timer Setting I

1 While keeping TIMER pressed, press TUNE/TIME SET +/− button to store the desired period in minutes after which you want the beep to sound.
You can store periods from 1 to 180 minutes.
⏲ is flashing in the display window while you press TIMER.
To sound the beep after 30 minutes, for example, while keeping TIMER pressed, press TUNE/TIME SET +/− until 30 appears in the display window.

2 Release TIMER.
⏲ stops flashing.
The display returns to the current time or to the frequency which was shown before you pressed TIMER to start the timer setting. When the stored period has passed, ⏲ flashes and the beep sounds.

To cancel the timer setting
Press TIMER again. ⏲ disappears.

Alarm Setting J

Make sure that the clock is correctly set. (See "Clock Setting".)

1 While keeping ALARM pressed, press TUNE/TIME SET +/− button to set the time when you want the beep to sound.
((•)) is flashing while you press ALARM.
To set the alarm for 7:00 in the morning, for example, while keeping ALARM pressed, press TUNE/TIME SET +/− until 7:00 appears in the display window.

2 Release ALARM.
((•)) stops flashing. The display returns to the current time or the frequency which was shown before you pressed ALARM to start the alarm setting.
When the time comes, ((•)) flashes and the beep sounds.

To cancel the alarm setting
Press ALARM again. ((•)) disappears.

To stop the beep
Press any button.
If you do not stop the beep, the beep stops automatically after about 3 minutes.
When the beep sounds while you are listening to the radio, the radio reception stops and resumes when the beep stops.

Notes
- When 0:00 flashes, you cannot set the alarm.
- When you stop the beep, the timer setting is canceled. The alarm setting remains.
- Even if you are listening to radio, you can set the timer and alarm.